

David E Kim

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31
papers

5,366
citations

25
h-index

32
g-index

32
ext. papers

6,361
ext. citations

7.7
avg, IF

5.32
L-index

#	Paper	IF	Citations
31	Protein structure prediction and analysis using the Robetta server. <i>Nucleic Acids Research</i> , 2004 , 32, W526-31	16.3	1239
30	ROSETTA3: an object-oriented software suite for the simulation and design of macromolecules. <i>Methods in Enzymology</i> , 2011 , 487, 545-74	1.7	1216
29	Computational alanine scanning of protein-protein interfaces. <i>Science Signaling</i> , 2004 , 2004, pl2	8.8	361
28	Protein structure determination using metagenome sequence data. <i>Science</i> , 2017 , 355, 294-298	33.3	346
27	Automated prediction of CASP-5 structures using the Robetta server. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003 , 53 Suppl 6, 524-33	4.2	241
26	A breakdown of symmetry in the folding transition state of protein L. <i>Journal of Molecular Biology</i> , 2000 , 298, 971-84	6.5	210
25	Simultaneous Optimization of Biomolecular Energy Functions on Features from Small Molecules and Macromolecules. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 6201-6212	6.4	199
24	Large-scale determination of previously unsolved protein structures using evolutionary information. <i>ELife</i> , 2015 , 4, e09248	8.9	173
23	Structure prediction for CASP7 targets using extensive all-atom refinement with Rosetta@home. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007 , 69 Suppl 8, 118-28	4.2	158
22	Physically realistic homology models built with ROSETTA can be more accurate than their templates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 5361-6	11.5	138
21	Free modeling with Rosetta in CASP6. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005 , 61 Suppl 7, 128-34	4.2	117
20	Prediction of CASP6 structures using automated Robetta protocols. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005 , 61 Suppl 7, 157-66	4.2	114
19	Comprehensive computational design of ordered peptide macrocycles. <i>Science</i> , 2017 , 358, 1461-1466	33.3	96
18	Improved de novo structure prediction in CASP11 by incorporating coevolution information into Rosetta. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016 , 84 Suppl 1, 67-75	4.2	82
17	Sampling bottlenecks in de novo protein structure prediction. <i>Journal of Molecular Biology</i> , 2009 , 393, 249-60	6.5	80
16	Automated prediction of domain boundaries in CASP6 targets using Ginzu and RosettaDOM. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005 , 61 Suppl 7, 193-200	4.2	72
15	One contact for every twelve residues allows robust and accurate topology-level protein structure modeling. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014 , 82 Suppl 2, 208-18	4.2	70

14	Accurate computer-based design of a new backbone conformation in the second turn of protein L. <i>Journal of Molecular Biology</i> , 2002 , 315, 471-7	6.5	70
13	Protein structure prediction using Rosetta in CASP12. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018 , 86 Suppl 1, 113-121	4.2	63
12	Structures of the B1 domain of protein L from <i>Peptostreptococcus magnus</i> with a tyrosine to tryptophan substitution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001 , 57, 480-7		54
11	Single-site mutations induce 3D domain swapping in the B1 domain of protein L from <i>Peptostreptococcus magnus</i> . <i>Structure</i> , 2001 , 9, 1017-27	5.2	50
10	Protein homology model refinement by large-scale energy optimization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 3054-3059	11.5	49
9	The single helix in protein L is largely disrupted at the rate-limiting step in folding. <i>Journal of Molecular Biology</i> , 1998 , 284, 807-15	6.5	49
8	Automatic structure prediction of oligomeric assemblies using Robetta in CASP12. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018 , 86 Suppl 1, 283-291	4.2	29
7	High-accuracy refinement using Rosetta in CASP13. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019 , 87, 1276-1282	4.2	26
6	Contributions of amino acid side chains to the kinetics and thermodynamics of the bivalent binding of protein L to Ig kappa light chain. <i>Biochemistry</i> , 2004 , 43, 2445-57	3.2	20
5	An analysis and evaluation of the WeFold collaborative for protein structure prediction and its pipelines in CASP11 and CASP12. <i>Scientific Reports</i> , 2018 , 8, 9939	4.9	16
4	Structure prediction using sparse simulated NOE restraints with Rosetta in CASP11. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016 , 84 Suppl 1, 181-8	4.2	11
3	Protein tertiary structure prediction and refinement using deep learning and Rosetta in CASP14. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021 , 89, 1722-1733	4.2	9
2	Crystallization and preliminary X-ray diffraction studies of mutants of B1 IgG-binding domain of protein L from <i>Peptostreptococcus magnus</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000 , 56, 506-8		4
1	Protein sequence design by explicit energy landscape optimization		4